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ADVISORY COUNCIL

SUBCOMMITTEE ON MANUAL OF PROCEDURES

Friday
January 20, 1978
1:30 P.M.

939 Ellis Street
San Francisco
California 94109

M I N U T E S

COMMITTEE MEMBERS PRESENT: Lowell V. Smith, Chairperson; Shirley J. Campbell, Joseph D. Coons, Hiram Wolch.

COMMITTEE MEMBERS ABSENT: John L. Nicholson.

STAFF MEMBERS PRESENT: Steve Balestrieri, Dario Levaggi, Walter Oyung, Wayman Siu, Mabel Harder.

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Chairperson Smith called the meeting to order at 1:05 P.M.

APPROVAL OF MINUTES OF NOVEMBER 4, 1977

Mr. Coons requested a correction on page 4, paragraph 1, line 3, to read "sight".

Mr. Coons moved the approval of the Minutes as corrected; seconded by Dr. Wolch; carried, with Mrs. Campbell abstaining.

APPROVAL OF MINUTES OF DECEMBER 16, 1977

Mr. Smith stated the Minutes would be approved as submitted, he being the only one in attendance.

REVIEW OF LABORATORY METHODS INVOLVING SULFUR AND SULFUR-BEARING COMPOUNDS

Mr. Levaggi called attention to the letter from Pacific Gas and Electric Company, received January 12, 1978, stating these were the only written comments received.

Mr. A. F. Reese
Environmental Control Supervisor
Fibreboard

presented a letter dated January 20, 1978 on the subject of, Comments on BAAPCD MOP Source Test Procedure ST-21 Total Reduced Sulfur.

Gerald Sanders
PG&E

suggested that the District maintain an equivalency list with the procedures, such as ASTM, with which Mr. Levaggi agreed, stating that ASTM will be used as equivalent procedures as well as EPA's, and suggested that the list be put in the Introduction on a general basis. There was discussion on whether the equivalency list would need to be approved by the Board each time a change is made, after which the Subcommittee agreed that the list would be put in the Introduction.

The Committee discussed Lab 3 procedures - Determination of Dimethysulfide in Effluents, Mr. Levaggi making the following changes:

Page 2 - 4.1 - line 5, to read, ". . . Turn off the pump and immediately . . ."

5.1 - ppb to be capitalized.

5.2 - line 2 to read, "mixtures in the range of 50 to 5,000 PPB . . ."

Page 3 - line 3, the word "calibrated" to be "calibration".

7.1 - line 4, to read, ". . . Anal. Chem., . . ."

7.2 - line 2, to read, ". . . Anal. Chem., . . ."

Mr. Levaggi reviewed the procedure as contained in the document. The following changes were made, with several typographical corrections also being made:

2.1 - line 5, to read, "sampling valve containing a 10 ml sampling tube . . ."

2.1.1 - line 1, to read, "The analytical column is a 30' x 1/8" teflon tube, packed with . . ."

3.1 to read, "Dimethysulfide reagent grade."

5.1, line 4, the word "pure" change to "liquid".

The Subcommittee agreed that Tedlor and Teflon should be capitalized throughout the document. Mr. Levaggi will add in §5.1 the specific gravity and necessary factor and give the Subcommittee the corrected version.

Dr. Wolch suggested that where interferences are known, they should be cited throughout the Regulation, to which Mr. Levaggi responded that interferences are contained in the Source Test Procedures.

The Committee discussed LAB 5, Mr. Levaggi making the following corrections:

4.4 - line 2, to read "500 nm . . ."

5.1 - line 1, to read ". . . weigh and transfer 0.1566 gr. . . ."

5.2 - "ul" to be changed to "ml".

Mr. Levaggi described the procedures and the Subcommittee made the following changes:

1. - line 3, the word "for" to be changed to "to".

line 4, to read "complex the amount of which is . . ."

4.2 - line 1, to read "transfer to a 25 ml graduated tube . . . 80 ug of . . . equivalent."

4.3 - Mr. Levaggi would add a sentence aluding to potential interference.

3.1 - line 2, to read ". . . essentially free of . . ."

The Committee discussed LAB 10 - Determination of Sulfur Content in Fuel Oil. Mr. Levaggi made the following corrections:

4.8 - line 2, to read "and the contents of . . ."

5.1 - the figure to read 0.1480.

5.3 - to read: ". . . add 1 ml 6N HCL and the contents of . . ."

6. - the word "sample" to read "sulfur".

Mr. Levaggi described the procedures.

The Subcommittee discussed LAB 11 - Determination of Sulfur Dioxide in Effluents. Mr. Levaggi made the following corrections:

2.1 - to read, "Buret, 0.50 ml

2.3 - Delete .0.

3.1 - line 1, to read "Sodium Hydroxide solution . . ."

Last line to read, "indicator (6.1)."

3.6 - number to read 0.1480.

4.- "Solution" to be changed to "Procedure".

4.1 - to read: Measure and record the total liquid volume of the impingers. Quantitatively transfer .50.0 ml aliquot into a 250 ml Erlenmeyer flask.

4.2 - line 1 to read,"Bring each flask to . . ."

5. - line 1 to read, "Alternatively the . . ."

line 4 to read, "Graduated 25 ml test tube".

5.2 - line 1 to read, ". . . of 6 NHCL and the contents of . . ."

- The figure in line 2 to read: 25 ml.

- Line 5 - "23" change to "25."

- line 6 - "mm" change to "nm".

- line 7 - the figure to read: 0 to 400

6. - title to read: Preparation of Standard Sodium Hydroxide Solution

6.1 - to read, ". . . Sodium Hydroxide Solution . . ."

Staff to put in the formula the weight of potassium acid phthalate.

Several typographical corrections were made.

LAB 12. Mr. Levaggi made the following corrections:

1. - line 4 to read ". . . in an impinger containing 80% . . ."

3.1 - line 1 to read, "Standard Sodium Hydroxide Solution . . ."

- line 3 to read, ". . . Standardize to ± 0.0003N . . ."

3.5.1 - line 1 to read, ". . . in 80% isopropyl . . ."

- line 2 to read, "of the 80% isopropyl . . ."

3.6 - Add at the end of the last line: and store in a tightly capped bottle,".

3.7 - Deleted

3.8 - Renumbered 3.7

3.9 - Renumbered 3.8. The figure in line 1 changed to 0.1480.

4.2.2 - line 8 - "adjust the pH . . . necessary" eliminated.

4.3.2 - line 5, the "&" change to, "plus".

4.3.3 - "alternate" change to "alternative".

4.3.3.5 - line 2 to read: "500 nm with 25 mm . . . 0 to 400 . . ."

There was discussion on the need for a sensitivity range, Mr. Levaggi stating it was not intended to limit the range used. It was felt that the use of "equivalency" would cover this concern.

Mrs. Campbell expressed concern about the procedures being consistent with respect to format, numbering, and punctuation, pointing out that the Consistency Committee suggested that the decimal format should not go too far. She suggested that 4.3.3 be changed to 4.3 - No. 1 procedure, and No. 2 procedure be changed to 4.4.

LAB 18 - Standardization of Hydrogen Sulfide Calibration Gas.
Mr. Levaggi made the following corrections:

4.5 - line 2 to read, ". . . in a 500 ml . . ."

5.2 - line 1 to read, "Record the original dry test meter reading (M_1)."

5.4 - the word "samplings", change to "determinations."

7.- small "ppm" change to caps "PPM", and in the formula "NA" change to "Na".

8.1 - line 1 to read, "Weigh three portions . . .)to ± 0.1 mg ...".

8.2 - Add: Record the volume of KI_3 used.

Figure I will be added. Mr. Levaggi presented said Figure to the Subcommittee.

8.3 - line 2 to read, "Normality. . .". The figure "0.4 946" change to "0.4946"

LAB 20 - Standardization of Sulfur Dioxide Calibration Gas.

Mr. Levaggi made the following corrections:

Figure I to be added.

4.1 - line 2 - "blue" change to "green".

4.2 - line 1 - "25" change to "50".

line 2 - "100" change to "500". Delete the sentence, "Store in a dark colored glass stoppered bottle." Add "Prepare fresh prior to use."

4.3 - line 1 - to read, "Sodium Hydroxide Solution . . ."

line 4 - Add at the end "(7.1)".

5.2 - line 1 - to read, "Record the original wet test meter reading (M_1)".

- line 6 - Change "100" to "200".

- line 7 - Change "200 liters" to "7.5 cu. ft."

5.4 - Change the word "samplings" to "determinations".

7.1 - line 1 - the figure 0.10 change to 0.1N.

- line 2 - change "duplicate" to "triplicate".

- line 3 - Delete the formula. The line to read:

"Wt. of Potassium Phthalate"

8. - line 5 - to read "Total PPM . . . Impinger . . . Impinger . . ."

REVIEW OF LABORATORY METHODS INVOLVING NITROGEN COMPOUNDS

Deferred until the Committee's next meeting.

OTHER

The Staff was requested to consider going to the metric system.

TIME AND PLACE OF NEXT MEETING

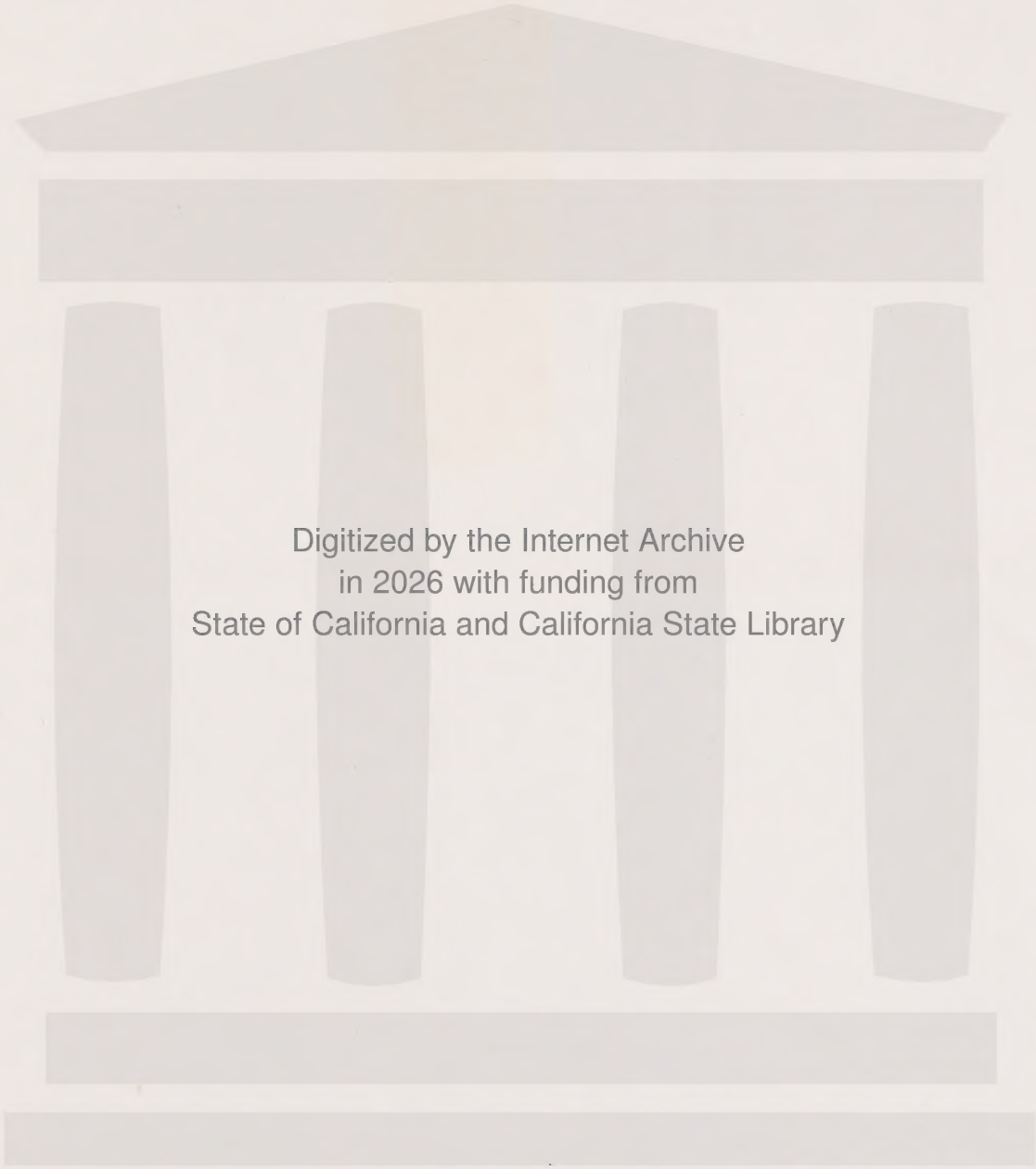
1:00 P. M., Wednesday, February 8, 1978, 939 Ellis Street, San Francisco, California.

The meeting adjourned at 3:00 P. M.

Respectfully submitted,

Mabel Harder
Secretary

MH:MR



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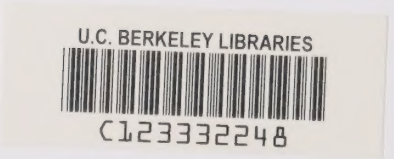

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